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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,872	08/06/2003	, Dani Dariel	246/211 7623		
. 7:	590 11/01/2005	EXAMINER			
	RIEDMAN LTD	SONG, HOSUK			
C/o Bill Polkin	ghorn				
Discovery Disp	atch	ART UNIT	PAPER NUMBER		
9003 Florin Wa	y	2135			
Upper Marlbor	o, MD 20772	1	DATE MAILED: 11/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	No.	Applicant(s)			
		10/634,872		DARIEL, DANI			
		Examiner		Art Unit			
		Hosuk Son		2135			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	1) Responsive to communication(s) filed on <u>8/23/05</u> .						
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)⊠ 6)⊠ 7)□	4) ☐ Claim(s) 1-55 is/are pending in the application. 4a) Of the above claim(s) 9,12,13,22,23,40 and 47-52 is/are withdrawn from consideration. 5) ☐ Claim(s) 53-55 is/are allowed. 6) ☐ Claim(s) 1-8,10,11,14-21,24-39 and 41-46 is/are rejected. 7) ☐ Claim(s) is/are objected to.						
Applicati	ion Papers	•					
9) The specification is objected to by the Examiner.							
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
,							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2)	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB. r No(s)/Mail Date) 3/08) 5	Paper No(s)/Mail Da) Notice of Informal Pa) Other:	te	D-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-6,10-11,14,17-21,24-25,28-31,33-34,36-39,41-46 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Davis(US 5,825,879) in view of Kihara et al(US 6,212,097).

Claim 1: Davis discloses a processor requesting encrypted digital data and decrypting the encrypted digital data, thereby providing decrypted digital data in (fig. 3,5). Davis discloses a player for transforming decrypted digital data to analog signals in (col.4,lines 56-67;col.5,lines 1-4). Davis does not specifically disclose a flash memory for storing encrypted digital data. Kihara disclose this limitation in (col.9,lines 39-42). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ flash memory as taught in Kihara with system of Davis because flash memory provides low power consumption and quick speed of memory erasure which enhances overall data processing.

Claim 2: Davis disclose encrypted digital data is requested from a server and wherein requesting of encrypted digital data includes authenticating the integrated circuit to server in(fig.4 and col.3,lines 33-43).

- Claim 3: Davis discloses integrated circuit is tamper-resistant in (col.4,lines 43-48).
- Claims 4-5: Davis discloses encrypted digital data are video data in (col.6,lines 51-58).
- Claim 6: Davis discloses processor includes an interface for receiving encrypted digital data in (fig.3).

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Claim 10: Davis discloses transmitting a request for encrypted digital data from processor and for receiving encrypted digital data in (fig.2; col.4,lines 25-31).

Claim 11: Davis discloses a display device mechanism for displaying analog signals in (col.5, lines 1-4).

Claim 14: Davis discloses a single processor in (fig.3).

Claim 17: Davis discloses a server for storing the digital data in an encrypted form in (col.3, lines 39-42). Davis discloses a processor for requesting encrypted digital data from server and decrypting encrypted digital data thereby providing decrypted digital data in (fig.2). Davis discloses a player for transforming decrypted digital data to analog signals in (col.4, lines 56-67). Davis does not specifically disclose a flash memory for storing encrypted digital data. Kihara disclose this limitation in (col.9,lines 39-42). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ flash memory as taught in Kihara with system of Davis because flash memory provides low power consumption and quick speed of memory erasure which enhances overall data processing.

Claim 18: Davis disclose encrypted digital data is requested from a server and wherein requesting of encrypted digital data includes authenticating the integrated circuit to server in(fig.4 and col.3,lines 33-43).

Claim 19: Davis discloses integrated circuit is tamper-resistant in (col.4,lines 43-48).

Claim 20: Davis discloses a transceiver for transmitting to server for encrypted digital data and for receiving encrypted digital data in (col.4,lines 24-31).

Claim 21: Davis discloses a display device mechanism for displaying analog signals in (col.5,lines 1-4).

Claim 24: Davis discloses integrated circuit includes a single processor in (fig.3).

Claim 25: Davis discloses transmitting substantially only encrypted digital data to user platform in (col.4,lines 49-55).

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Claim 28: Davis discloses a processor operative to request the encrypted digital data from the server and decrypt the encrypted digital data thereby providing decrypted digital data in (fig.2;col.3,lines 39-43). Davis discloses a player operative to transform decrypted digital data to analog signals in (col.5,lines 1-4). Davis disclose requesting the encrypted digital data from the server by processor;decrypting the encrypted digital data by processor thereby providing decrypted digital data and transforming decrypted digital data to analog signals by player in (col.4,lines 49-67). Davis does not specifically disclose a flash memory for storing encrypted digital data. Kihara disclose this limitation in (col.9,lines 39-42). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ flash memory as taught in Kihara with system of Davis because flash memory provides low power consumption and quick speed of memory erasure which enhances overall data processing.

Claim 29: Davis discloses authenticating integrated circuit to the server in (fig.4 and col.3,lines 33-43).

Claim 30: Davis discloses authenticating is effected using an asymmetrical algorithm in (col.3,lines 1-2).

Claim 31: Davis discloses asymmetrical algorithm is a RSA algorithm in (col.3,lines 1-2;col.6,lines 39-42).

Claim 33: Davis discloses decrypting is effected using a symmetrical algorithm in (col.3,lines 16-18).

Claim 34: Davis disclose symmetrical algorithm is a DES algorithm in (col.3, lines 4-5).

Claim 36: Davis discloses requesting at least one key from the server by processor in (col.7,lines 1-3).

Claims 37-38: Davis does not disclose storing at least one key in a nonvolatile and encrypting at least one key, prior to storing of at least one key in nonvolatile memory. Kihara disclose this limitation in

(col.9,lines 39-46). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ nonvolatile memory ad encrypting the key as taught in Kihara with system of Davis so that keys can be protected at all times such as against power failure.

Claim 39: Davis disclose configuring the server to send substantially only encrypted digital data and at least one key to integrated circuit in (col.4,lines 49-55).

Claim 41: Davis does not specifically disclose resetting integrated circuit. It would have been obvious to person of ordinary skill in the art to modify the invention of Davis to reset the integrated circuit in order to place the circuit back to secure mode after tamper detection such that IC can be protected against tampering.

Claim 42: Davis discloses configuring the server to send substantially only encrypted digital data to integrated circuit in (col.4,lines 49-55).

Claims 43-46: Davis discloses digital data are audio data and video in (col.4,lines 49-52). Note that MPEG is a coding of moving pictures and associated audio for digital storage media.

2 Claims 7-8 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Davis(US 5,825,879) in view of Kihara et al(US 6,212,097) and further in view of Dlugosch(US 6,789,146)

Claims 7-8:Neither Davis nor Kihara specifically disclose interface is selected from the group consisting of an ISO7816 interface,a local bus interface,MMCA interface, a SDA interface,a USB interface and a parallel interface. Dlugosch disclose this limitation in (col.4,lines 1-15 and table I). It would have been obvious to person of ordinary skill in the art at the time invention was made to employ selected interface as taught in Dlugosch with system of Davis and Kihara to enhance and improve data processing scheme.

3. Claims 15-16,26-27,26-27,32,35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis(US 5,825,879).

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Claim 15-16,26-27: Official notice is taken that management code is stored only in ROM is well known in the art. One of ordinary skill in the art would have been motivated to store management code in ROM in order to prevent illegal modification thus preventing intrusion.

Claim 32: Davis does not specifically disclose ECC algorithm. It would have been obvious to person of ordinary skill in the art at the time invention was made to employ ECC algorithm because ECC device require less storage, less power, less memory and less bandwidth than other systems and provides enhanced data security.

Claim 35: Official notice is taken that Rijndael algorithm is well known in the art. One of ordinary skill in the art would have been motivated to employ Rijndael algorithm because of its new generation symmetric block cipher that supports key sizes up to 256 bits for enhanced security.

Allowable Subject Matter

4. Claims 53-55 are allowed.

Response to Applicant's Arguments

Claims 53-55 are allowed in view of applicant's arguments. However, claims 1-8,1011,14-21,24-39,41-46 remain rejected. Applicant has argued that it is improper to combine
Davis '879 with Kihara et al. '097 to reject independent claims 1,17,28. In response: Examiner
disagree. Sufficient motivation was provided in combining Davis with Kihara in rejecting of
claims 1,17,28. Davis does not specifically disclose a flash memory for storing encrypted digital data.
Kihara disclose this limitation in (col.9,lines 39-42). It would have been obvious to person of ordinary
skill in the art at the time invention was made to employ flash memory as taught in Kihara with system of
Davis because flash memory provides low power consumption and quick speed of memory erasure which
enhances overall data processing. Examiner asserts that it is proper to combine Davis with Kihara and
maintains the rejections.

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Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

USPTO Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 571-272-3857. The examiner can normally be reached on Tue-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Hosuk Song Primary Examiner Art Unit 2135